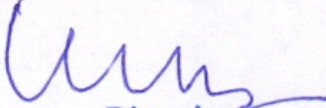
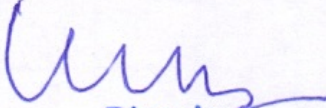


| |
|--|
| 1. Explain basic concepts, OSI reference model, services and role of each layer of OSI model and TCP/IP, networks devices and transmission media, Analog and digital data transmission |
| 2. Apply channel allocation, framing, error and flow control techniques. |
| 3. Describe the functions of Network Layer i.e. Logical addressing, subnetting & Routing Mechanism. |
| 4. Explain the different Transport Layer function i.e. Port addressing, Connection Management, Error control and Flow control mechanism. |
| 5. Explain the functions offered by session and presentation layer and their Implementation. |
| 6. Explain the different protocols used at application layer i.e. HTTP, SNMP, SMTP, FTP, TELNET and VPN. |
| Image Processing (KCS-062 T) |
| 1. Explain the basic concepts of two-dimensional signal acquisition, sampling, quantization and color model. |
| 2. Apply image processing techniques for image enhancement in both the spatial and frequency domains. |
| 3. Apply and compare image restoration techniques in both spatial and frequency domain. |
| 4. Compare edge based and region based segmentation algorithms for ROI extraction. |
| 5. Explain compression techniques and descriptors for image processing. |
| Software Project Management (KOE-068 T) |
| 1. Identify project planning objectives, along with various cost/effort estimation models. |
| 2. Organize & schedule project activities to compute critical path for risk analysis. |
| 3. Monitor and control project activities. |
| 4. Formulate testing objectives and test plan to ensure good software quality under SEI-CMM. |
| 5. Configure changes and manage risks using project management tools. |
| Understanding The Human Being Comprehensively Human Aspirations And Its Fulfilment (KOE-069 T) |
| 1. To understand basic human aspiration and their fulfillment through right understanding and resolution. |
| 2. Understanding domain of Right Understanding starting through human being up to entire existence. |
| 3. Analyzing Right Understanding of human being comprehensively. |
| 4. Analysis the need and verify the proposals of the inner evolution through the self-exploration leading to awakening of the activities of realization. |
| 5. Analyze and Demonstrate Undivided Human Society, Universal Human Order and Human Tradition |
| Indian Tradition, Culture and Society (KNC602 T) |
| 1. Identify, explore and enhance the ability to understand the basic features of Society State and Polity in India. |
| 2. To understand and follow Indian Literature, Culture, Traditions and Practices. |

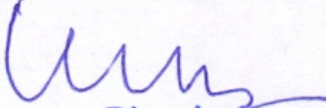
| |
|--|
| 3. To understand and explain the basis of Indian Religion, Philosophy and Practices. |
| 4. To understand the basics of Science, Management and Indian Knowledge System. |
| 5. To connect up with the knowledge of scientific perspective of Indian Cultural Heritage and Performing Arts. |
| |
| Software Engineering Lab (KCS-651 P) |
| 1. Identify ambiguities, inconsistencies and incompleteness from a requirements specification and state functional and non-functional requirement |
| 2. Identify different actors and use cases from a given problem statement and draw use case diagram to associate use cases with different types of relationship |
| 3. Draw a class diagram after identifying classes and association among them |
| 4. Graphically represent various UML diagrams , and associations among them and identify the logical sequence of activities undergoing in a system, and represent them pictorially |
| 5. Able to use modern engineering tools for specification, design, implementation and testing |
| |
| Web Technology Lab (KCS-652 P) |
| 1. Develop static web pages using HTML |
| 2. Develop Java programs for window/web-based applications. |
| 3. Design dynamic web pages using Javascript and XML. |
| 4. Design dynamic web page using server site programming Ex. ASP/JSP/PHP |
| 5. Design server site applications using JDDC, ODBC and session tracking API |
| |
| Computer Networks Lab (KCS-653 P) |
| 1. Simulate different network topologies. |
| 2. Implement various framing methods of Data Link Layer. |
| 3. Implement various Error and flow control techniques. |
| 4. Implement network routing and addressing techniques. |
| 5. Implement transport and security mechanisms |
| |


 Director
 Ajay Kumar Garg Engg. College
 Ghaziabad

| |
|--|
| Distributed System (RCS-701 T) |
| 1. Understand the key mechanism of logical clock, models for distributed systems and concepts in message passing. |
| 2. Analyze the algorithms of distributed mutual exclusion and deadlock detections. |
| 3. Understand the concept of failure detection, shared memory, agreement protocols and group communication in distributed system. |
| 4. Learn and analyze the concepts of failure recovery and fault tolerance in distributed system. |
| 5. Apply the concepts of database to understand the concept of distributed transactions, concurrency control and replication in distributed database |
| Artificial Intelligence (RCS702 T) |
| 1. Understand the concepts of artificial intelligence including computer vision, natural language processing. |
| 2. Analyze and implement the various searching algorithms like Uninformed search, Informed search, Adversarial search, Game search strategies. |
| 3. Retrieve and apply the concepts of knowledge representation and inference with Propositional Logic, First Order Logic. |
| 4. Understand and compare the concept of supervised and unsupervised learning. |
| 5. Analyze the techniques of pattern recognition including statistical pattern recognition. |
| Understanding Human Being Comprehensively (ROE074 T) |
| 1. To understand basic human aspiration and their fulfillment through right understanding and resolution. |
| 2. Understanding domain of Right Understanding starting through human being up to entire existence. |
| 3. Analyzing Right Understanding of human being comprehensively. |
| 4. Analysis the need and verify the proposals of the inner evolution through the self-exploration leading to awakening of the activities of realization. |
| 5. Analyze and Demonstrate Undivided Human Society, Universal Human Order and Human Tradition |
| Human Computer Interface (RCS-073 T) |
| 1. Understand the concept of Human-Computer Interaction (HCI), Graphical User Interface (GUI) and Web User Interface. |
| 2. Analyze the impact of human characteristics in HCI design process |
| 3. Explain the concept of organizing and presentation of screen in screen designing. |
| 4. Understand the components and concept of colors in windows designing. |
| 5. Apply the concepts of software tools to build Human Computer Interface |
| Cloud Computing (RCS-075 T) |
| 1. Understand the basic concepts of Cloud Computing. |
| 2. Identify the techniques of Service Oriented Architecture and Virtualization. |
| 3. Analyze the Cloud Architecture, services and storage. |


 Director
 Ajay Kumar Garg Engg. College
 Ghaziabad

| |
|---|
| 4. Describe concepts of resource management and security in Cloud. |
| 5. Describe various cloud technologies such as Hadoop, Map Reduce and Virtual box and advancements. |
| Distributed System Lab (RCS-751 P) |
| 1. Gain the knowledge of Unix/Linux operating systems and build concurrent client and server environment to understand the distributed properties and architecture. |
| 2. Program the communication among processes at different hosts to facilitate distributed computing. |
| 3. Understand, appreciate and apply distributed mutual algorithms in problem solving. |
| 4. Apply principles of message passing programming in distributed system. |
| 5. Understand and implement various design issues in distributed system. |
| Artificial Intelligence Lab (RCS752 P) |
| 1. To understand the fundamental of Prolog Programming Language. |
| 2. To implement simple programs like temperature conversion, monkey banana problem in Prolog Programming language. |
| 3. implement medical diagnosis in Prolog Programming language and to understand the advantage and disadvantage of Green and Red Cut. |
| 4. understand and implement Travelling Salesman Problem and 4 -Queen Problem in Prolog Programming Language. |
| 5. To understand and implement Water Jug Problem in Prolog Programming Language. |
| Machine Learning (RCS-080 T) |
| 1. To understand the need for machine learning for various problem solving. |
| 2. To understand a wide variety of learning algorithms and how to evaluate models generated from data. |
| 3. To understand the latest trends in machine learning. |
| 4. To design appropriate machine learning algorithms and apply the algorithms to a real-world problem. |
| 5. To optimize the models learned and report on the expected accuracy that can be achieved by applying the models. |
| Data Compression (RCS-087 T) |
| 1. Understand the basic compression techniques and mathematical models to code the compression techniques. |
| 2. Implement and analyze Huffman Coding for compression. |
| 3. Understand the statistical and conceptual basis for lossy and lossless compression techniques. |
| 4. Learn the basic concepts of scalar quantization. |
| 5. Understand the process, types and advantages of vector quantization. |


 Director
 Ajay Kumar Garg Engg. College
 Ghaziabad